

Claims

1. A process for storing ammonia, the process including the steps of:
 - 5 (a) absorbing ammonia into an alcohol to form an alcohol/ammonia solution; and
 - (b) holding the alcohol/ammonia solution in a reservoir for subsequent recovery of ammonia therefrom.
- 10 2. A process as claimed in claim 1 wherein the alcohol/ammonia solution is saturated with ammonia.
- 15 3. A process as claimed in claim 1 or claim 2 wherein the ammonia is absorbed into the alcohol at ambient pressure.
4. A process as claimed in any one of the preceding claims wherein the alcohol/ammonia solution is held in the reservoir at ambient pressure.
- 20 5. A process as claimed in any one of the preceding claims wherein the ammonia is absorbed into the alcohol in the reservoir.
6. A process as claimed in any one of claims 1-4 wherein the ammonia is absorbed into the alcohol in a gas scrubber.
- 25 7. A process for recovering ammonia from an alcohol/ammonia solution, the process including the step of heating and/or reducing the pressure of the alcohol/ammonia solution to liberate ammonia therefrom.
8. A process as claimed in claim 7 wherein the alcohol/ammonia solution is heated in a flash reactor or a stripping column.
- 30 9. A process for storing and recovering ammonia, the process including the steps of:
 - (a) absorbing ammonia into an alcohol to form an alcohol/ammonia solution;
 - (b) holding the alcohol/ammonia solution in a reservoir for subsequent recovery of ammonia therefrom; and
 - (c) heating and/or reducing the pressure of the alcohol/ammonia solution to liberate ammonia therefrom.

10. A process as claimed in any one of the preceding claims wherein the alcohol is an ammoniation alcohol or a salt containing ammoniation alcohol.

11. An alcohol/ammonia solution held in a reservoir for subsequent recovery of ammonia therefrom.

12. An alcohol/ammonia solution as claimed in claim 11 wherein the alcohol is an ammoniation alcohol or a salt containing ammoniation alcohol.